

Page 1 of 7



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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/025,524

DATE: 07/24/2002

TIME: 09:06:41

Input Set : A:\EP.txt

Output Set: N:\CRF3\07242002\J025524.raw

SEQUENCE LISTING

			SEQUENCE LISTING
	3	` '	RAL INFORMATION:
	5	(i)	APPLICANT: Gallatin, W. Michael
	6		Kilgannon, Patrick D.
	8	(ii)	TITLE OF INVENTION: ICAM-4 Materials and Methods
	10	(iii)	NUMBER OF SEQUENCES: 42
	12	(iv)	CORRESPONDENCE ADDRESS:
	13		(A) ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
	14		(B) STREET: 233 South Wacker Drive, 6300 Sears Tower
	15		(C) CITY: Chicago
	16		(D) STATE: Illinois
	17		(E) COUNTRY: United States of America
	18		(F) ZIP: 60606-6402
	20	(V)	COMPUTER READABLE FORM:
	21		(A) MEDIUM TYPE: Floppy disk
	22		(B) COMPUTER: IBM PC compatible
	23		(C) OPERATING SYSTEM: PC-DOS/MS-DOS
	24		(D) SOFTWARE: PatentIn Release #1.0, Version #1.25
	26	(vi)	CURRENT APPLICATION DATA:
C>	27		(A) APPLICATION NUMBER: US/10/025,524
C>	28		(B) FILING DATE: 18-Dec-2001
	29		(C) CLASSIFICATION:
	55	(vii)	PRIOR APPLICATION DATA:
	32		(A) APPLICATION NUMBER: US 07/827,689
	33		(B) FILING DATE: 27-JAN-1992
	36		(A) APPLICATION NUMBER: US 07/889,724
	37		(B) FILING DATE: 26-MAY-1992
	40		(A) APPLICATION NUMBER: US 07/894,061
	41		(B) FILING DATE: 05-JUN-1992
	44		(A) APPLICATION NUMBER: US 08/009,266
	45		(B) FILING DATE: 22-JAN-1993
	48		(A) APPLICATION NUMBER: US 08/102,852
	49		(B) FILING DATE: 05-AUG-1993
	52		(A) APPLICATION NUMBER: US 08/245,295
	53		(B) FILING DATE: 18-MAY-1994
	56		(A) APPLICATION NUMBER: US 08/485,604
	57		(B) FILING DATE: 07-JUN-1995
	59	(viii)	ATTORNEY/AGENT INFORMATION:
	60		(A) NAME: WILLIAMS, JR. JOSEPH A.
	61		(B) REGISTRATION NUMBER: 38,659
	62	_	(C) REFERENCE/DOCKET NUMBER: 27866/33321
	64	(ix)	TELECOMMUNICATION INFORMATION:
	65		(A) TELEPHONE: 312-474-6300

Input Set : A:\EP.txt

(B) TELEFAX: 312-474-0448 (C) TELEX: 25-3856 (9 (2) INFORMATION FOR SEQ ID NO: 1: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2988 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA														
(ix) FEATURE:														
81 (A) NAME/KEY: CDS														
82 (B) LOCATION: 612814 84 (vi) SPOURNCE DESCRIPTION: SEO ID NO: 1:														
84 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: 86 AATTCGATCA CTCGCCTCC CCTCGCCTTC TGCGCTCTCC CCTCCCTGGC AGCGGCGGCA														
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89 Met Pro Gly Pro Ser Pro Gly Leu Arg Arg Thr Leu Leu Gly Leu														
90 1 5 10 15	115													
92 GCT GCC CTG GGC CTG GGG ATC CTA GGC ATC TCA GCG GTC GCG CTA	GAA 156													
93 Ala Ala Leu Gly Leu Gly Ile Leu Gly Ile Ser Ala Val Ala Leu														
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104 GGT GGC CTG GAG ACC TCG CTA CGC CGA AAC GGG ACC CAG AGG GG	T CTG 300													
105 Gly Gly Leu Glu Thr Ser Leu Arg Arg Asn Gly Thr Gln Arg Gly	/ Leu													
106 65 70 75	80													
108 CGC TGG CTG GCT CGA CAG CTG GTG GAC ATC CGA GAG CCT GAA ACC														
109 Arg Trp Leu Ala Arg Gln Leu Val Asp Ile Arg Glu Pro Glu Th														
110 85 90 99														
112 CCG GTC TGC TTC TTC CGC TGC GCG CGC CGC														
113 Pro Val Cys Phe Phe Arg Cys Ala Arg Arg Thr Leu Gln Ala Arg 114 100 105 110) GIÀ													
116 CTC ATC CGA ACT TTC CAG CGA CCG GAT CGG GTA GAG CTA GTG CC	CTG 444													
117 Leu Ile Arg Thr Phe Gln Arg Pro Asp Arg Val Glu Leu Val Pro														
118 115 120 125	, Tea													
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121 Pro Pro Trp Gln Pro Val Gly Glu Asn Phe Thr Leu Ser Cys Arg														
122 130 135 140	,													
124 CCG GGG GCA GGA CCC CGA GCG AGC CTC ACA TTG ACC TTG CTG CGA	A GGC 540													
125 Pro Gly Ala Gly Pro Arg Ala Ser Leu Thr Leu Thr Leu Leu Arg														
126 145 150 155	160													
128 GGC CAG GAG CTG ATT CGC CGA AGT TTC GTA GGC GAG CCA CCC CGA	GCT 588													
129 Gly Gln Glu Leu Ile Arg Arg Ser Phe Val Gly Glu Pro Pro Arg	, Ala													
130 165 170 175														
132 CGG GGT GCG ATG CTC ACC GCC ACG GTC CTG GCG CGC AGA GAG GAS														
133 Arg Gly Ala Met Leu Thr Ala Thr Val Leu Ala Arg Arg Glu Asp	His													

Input Set : A:\EP.txt

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138			195					200					205				
140	TTG	GGA	CTG	TTT	GCA	AAC	AGC	TCA	GCC	CCC	AGA	CAG	CTC	CGC	ACG	TTT	732
141	Leu	Gly	Leu	Phe	Ala	Asn	Ser	Ser	Ala	Pro	Arg	Gln	Leu	Arg	Thr	Phe	
142		210					215					220					
144	GCC	ATG	CCT	CCA	CTT	TCC	CCG	AGC	CTT	ATT	GCC	CCA	CGA	TTC	TTA	GAA	780
145	Ala	Met	Pro	Pro	Leu	Ser	Pro	Ser	Leu	Ile	Ala	Pro	Arg	Phe	Leu	Glu	
146	225					230					235					240	
148	GTG	GGC	TCA	GAA	AGG	CCG	GTG	ACT	TGC	ACT	TTG	GAT	GGA	CTG	TTT	CCT	828
	Val	Gly	Ser	Glu	Arg	Pro	Val	Thr	Cys	Thr	Leu	Asp	Gly	Leu	Phe	Pro	
150					245					250					255		
	GCC																876
	Ala	Pro	Glu		Gly	Val	Tyr	Leu		Leu	Gly	Asp	Gln	_	Leu	His	
154				260					265					270			
	CCT																924
	Pro	Asn		Thr	Leu	Asp	Gly		Ser	Leu	Val	Ala		Ala	Thr	Ala	
158			275					280			~		285				070
	ACA																972
	Thr		Ser	Glu	GIU	GIn		GLŸ	Thr	ьуs	GIn		мет	Cys	тте	vaı	
162	3.00	290	000	000	733	100	295	C 1 C	100	0.0	<i>(</i> 13.3)	300	OTH C	3.00	аша	m a .c.	1000
	ACC																1020
	Thr 305	Leu	GIY	СТУ	GIU	310	Arg	GIU	THE	GIII	315	ASII	ьeu	THE	Val	320	
	AGC	መመረ	CCC	CCT	ССТ			х Ст	תיחי א	አ ሮ ሞ		CCA	CAA	CCC	CCC		1068
	Ser																1000
170	Ser	FIIC	FIO	Ата	325	пец	пеп	1111	пец	330	GIU	FIO	GIU	АТа	335	Giu	
	GGA	AAG	ΔТС	GTG		СТА	AGC	TGC	TGG		GGG	GCC	CGA	GCC		GTC	1116
	Gly																1110
174	011	_15		340		,	551	0,12	345				9	350		· u =	
	ACC	TTG	GAG		ATT	CCA	GCT	GCG		CCT	GGG	CAG	CCC		GAG	CTC	1164
	Thr																
178			355					360			_		365				
180	CAG	TTA	AAT	GTC	ACA	AAG	AAT	GAC	GAC	AAG	CGG	GGC	TTC	TTC	TGC	GAC	1212
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182		370					375					380					
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185	Ala	Ala	Leu	Asp	Val	Asp	Gly	Glu	Thr	Leu	Arg	Lys	Asn	Gln	Ser	Ser	
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188	GAG	CTT	CGT	GTT	CTG	TAC	GCA	CCT	CGG	CTG	GAT	GAC	TTG	GAC	TGT	CCC	1308
189	Glu	Leu	Arg	Val	Leu	Tyr	Ala	Pro	Arg	Leu	Asp	Asp	Leu	Asp	Cys	Pro	
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	AGG																1356
	Arg	Ser	\mathtt{Trp}		\mathtt{Trp}	Pro	Glu	Gly		Glu	Gln	Thr	Leu		Cys	Glu	
194				420					425					430			
	GCC																1404
	Ala	Arg	_	Asn	Pro	Glu	Pro		Val	His	Cys	Ala	-	Pro	Asp	Gly	
198			435					440					445				•

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200	GGG	GCG	GTG	CTA	GCG	CTG	GGC	CTG	TTG	GGT	CCA	GTG	ACC	CGT	GCC	CTC	1452
201	Gly	Ala	Val	Leu	Ala	Leu	Gly	Leu	Leu	Gly	Pro	Val	Thr	Arq	Ala	Leu	
202	-	450					455			-		460		_			
204	GCG	GGC	ACT	TAC	CGA	TGT	ACA	GCA	ATC	AAT	GGG	CAA	GGC	CAG	GCG	GTC	1500
205	Ala	Gly	Thr	Tyr	Arg	Cys	Thr	Ala	Ile	Asn	Gly	Gln	Gly	Gln	Ala	Val	
	465	-		-	_	470					475		-			480	
208	AAG	GAT	GTG	ACC	CTG	ACT	GTG	GAA	TAT	GCC	CCA	GCG	CTG	GAC	AGT	GTA	1548
	Lys																
210	-	-			485				_	490				_	495		
212	GGC	TGC	CCA	GAA	CGT	ATT	ACT	TGG	CTG	GAG	GGG	ACA	GAG	GCA	TCG	CTT	1596
213	Gly	Cys	Pro	Glu	Arg	Ile	Thr	Trp	Leu	Glu	Gly	Thr	Glu	Ala	Ser	Leu	
214	_	_		500	_				505		_			510			
216	AGC	TGT	GTG	GCA	CAC	GGG	GTC	CCA	CCA	CCT	AGC	GTG	AGC	TGT	GTG	CGC	1644
217	Ser	Cys	Val	Ala	His	Gly	Val	Pro	Pro	Pro	Ser	Val	Ser	Cys	Val	Arg	
218	•		515			•		520					525				
220	TCT	GGA	AAG	GAG	GAA	GTC	ATG	GAA	GGG	CCC	CTG	CGT	GTG	GCC	CGG	GAG	1692
221	Ser	Gly	Lys	Glu	Glu	Val	Met	Glu	Gly	Pro	Leu	Arg	Val	Ala	Arg	Glu	
222		530					535					540					
224	CAC	GCT	GGC	ACT	TAC	CGA	TGC	GAA	GCC	ATC	AAC	GCC	AGG	GGA	TCA	GCG	1740
225	His	Ala	Gly	Thr	Tyr	Arg	Cys	Glu	Ala	Ile	Asn	Ala	Arg	Gly	Ser	Ala	
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228	GCC	AAA	AAT	GTG	GCT	GTC	ACG	GTG	GAA	TAT	GGT	CCC	AGT	TTT	GAG	GAG	1788
229	Ala	Lys	Asn	Val	Ala	Val	Thr	Val	Glu	Tyr	Gly	Pro	Ser	Phe	Glu	Glu	
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233	Leu	Gly	Cys	Pro	Ser	Asn	${\tt Trp}$	Thr	${\tt Trp}$	Val	Glu	Gly	Ser	Gly	Lys	Leu	
234				580					585					590			
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237	Phe	Ser	_	Glu	Val	Asp	Gly	Lys	Pro	Glu	Pro	Arg	Val	Glu	Cys	Val	
238			595					600					605				
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242		610					615					620					
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	Asn	Ser	Gly	Ser	Arg		Ser	Met	Thr	Pro		Asn	Leu	Ser	Pro	-	
	625					630					635					640	
	ATT																2028
	Ile	Tyr	Leu	Cys		Ата	Thr	Asn	Arg		GLY	ser	Thr	vaı	_	Thr	
250					645	~		~~~		650		a.m	~		655		0076
	GTC																2076
	Val	vaı	vaı		Ата	Glu	ser	Pro		GIN	мет	Asp	GIU		ser	Cys	
254	000	3 am	a. a	660		maa	ama		665		a. a	aam	3 am	670	0.00	999	0104
	CCG																2124
	Pro	ser		GIn	Thr	ттр	Leu		GIY	Ата	GIU	Ala		Ата	Leu	Ala	
258	mca	N CITI	675	7.07	ccc	ccc	CCC	680	CCA	acc	CEC	CCC	685	maa	200	C 2 2	2172
	TGC																2172
	Cys	5er 690	нта	Arg	GTÀ	Arg	695	ser,	PLO	Arg	۷ат	700	Cys	ser.	Arg	GIU	
262	GGT		CCC	NCC.	CTC	CNC		CTDA	CAC	CTC	TCC		CAC	C N TD	CCC	CCC	2220
204	991	GCA	GCC	AGG	CIG	GNG	HUG	CIA	CAG	GIG	100	CGA	UNU	GHI	GCG	GGG	2220

Input Set : A:\EP.txt

	Gly 705	Ala	Ala	Arg	Leu	Glu 710	Arg	Leu	Gln	Val	Ser 715	Arg	Glu	Asp	Ala	Gly 720	
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	Thr																
270		-		_	725					730	_		_		735		
272	GTC	ACT	GTG	GGT	GTG	GAA	TAC	CGG	CCT	GTG	GTG	GCT	GAG	CTG	GCA	GCC	2316
273	Val	Thr	Val	Gly	Val	Glu	Tyr	Arg	Pro	Val	Val	Ala	Glu	Leu	Ala	Ala	
274				740					745					750			
276	TCG	CCC	CCA	AGC	GTG	CGG	CCT	GGC	GGA	AAC	TTC	ACT	CTG	ACC	TGC	CGT	2364
277	Ser	Pro	Pro	Ser	Val	Arg	Pro	Gly	Gly	Asn	Phe	Thr	Leu	Thr	Cys	Arg	
278			755					760					765				
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281	Ala	Glu	Ala	\mathtt{Trp}	Pro	Pro	Ala	Gln	Ile	Ser	Trp	Arg	Ala	Pro	Pro	Gly	
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	GCT																2460
	Ala	Leu	Asn	Leu	Gly		Ser	Ser	Asn	Asn		Thr	Leu	Ser	Val		
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	GGT																2508
	Gly	Ala	Met	Gly		His	Gly	Gly	Glu		Glu	Cys	Ala	Ala		Asn	
290					805					810					815		
	GCG																2556
	Ala	His	GLY		His	Ala	Arg	Arg		Thr	Val	Arg	Val		GLY	Pro	
294		ота		820	a am	ama	222	aam	825		222	222	222	830	ama	ama	0604
	TGG																2604
297 298	Trp	Leu	835	vaı	Ата	vaı	GIĀ	_	Ата	Ата	GTA	GTĀ		Ата	Leu	Leu	
	GCC	CCA		ccc	ccc	CTC	CCC	840	ma C	CTTC	CAC	mcc	845	CCT	mcc	7 7 C	2652
	Ala																2032
302	AId	850	СТУ	АТа	СТУ	пец	855	FIIC	ıyı	Val	GIII	860	1111	AIG	Суз	пуъ	
	AAG		GAG	ጥ ል <i>ር</i>	ממכ	GTC		GAG	CCT	GAG	ΔCC		GGC	GAG	GCG	GTG	2700
	Lys																2700
	865		014	-1-		870	0111	O_Lu		014	875	001		014		880	
	TGT	CTC	AAT	GGC	GCG		GGG	ACA	CCG	GGT		GAA	GGC	GGA	GCA		2748
	Cys																
310	- 4 -				885	. 1	_			890			. 1		895		
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313	Thr	Pro	Gly	Thr	Ala	Glu	Ser	Pro	Ala	Asp	Gly	Glu	Val	Phe	Ala	Ile	
314			_	900					905	-	_			910			
316	CAG	CTG	ACA	TCT	TCC	TGAC	CCT	C AT	CCAC	CTC	cc cc	CAGGO	GCC1	CG	AAAGO	CACA	2851
317	Gln	Leu	Thr	Ser	Ser												
318			915														
320	GGGG	STGG	ACG 1	'ATG	TATTO	T TC	CACTO	CTCTA	TTT	OTTAT	CAAC	TCCF	AGGGG	GCG 7	CGTC	CCCCGT	2911
						AT A	AAGTT	TTTT	TAC	GAG	AAA	AAAA	AAAA	AA A	AAAA	AAAAA	2971
	AAA															•	2988
	(2)																
328		(i)					CTERI			_							
329							L7 an		acid	is							
330			•	•			no ac										
331			(I) TO	OPOLO	GY:	line	ear									

VERIFICATION SUMMARY

DATE: 07/24/2002

PATENT APPLICATION: US/10/025,524

TIME: 09:06:42

Input Set : A:\EP.txt

Output Set: N:\CRF3\07242002\J025524.raw

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L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
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